OIPE

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 10/084,706

CRF Processing Date: 3/28/2002
Edited by:
Verified by: (STIC staff)

ENTERED

- ☐ Changed a file from non-ASCII to ASCII.
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically:

  _____

- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:

  _____

- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

  _____

- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

  _____

- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included:

  _____

- ☐ Deleted extra, invalid, headings used by an applicant, specifically:

  _____

- ☑ Deleted: ☑ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____.
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically:

  _____

- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically:

  _____

- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted ***ending*** stop codon in amino acid sequences and adjusted the "(A)ength:" field accordingly (error [illegible] Patentin bug). Sequences affected: _____
- ☐ Other.

  _____

  _____

  _____

  _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

OIPE

RAW SEQUENCE LISTING DATE: 03/28/2002
PATENT APPLICATION: **US/10/084,706** TIME: 12:18:54

Input Set : **A:\PTO.txt**
Output Set: **N:\CRF3\03282002\J084706.raw**

```
      4 <110> APPLICANT: RASMUSSEN, Poul Baad
      5       DRUSTRUP, Jorn
      6       RASMUSSEN, Grethe
      7       PEDERSEN, Anders Hjelholt
      8       SCHAMBYE, Hans Thalsg+rd
      9       ANDERSEN, Kim Vilbour
     10       BORNS, Claus
     11       Maxygen ApS
     12       Maxygen Holdings Ltd.
     14 <120> TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
     17 <130> FILE REFERENCE: 0228us410
C--> 19 <140> CURRENT APPLICATION NUMBER: US/10/084,706
C--> 19 <141> CURRENT FILING DATE: 2002-02-26
     19 <150> PRIOR APPLICATION NUMBER: US 60/272,116
     20 <151> PRIOR FILING DATE: 2001-02-27
     22 <150> PRIOR APPLICATION NUMBER: US 60/343,436
     23 <151> PRIOR FILING DATE: 2001-12-21
     25 <150> PRIOR APPLICATION NUMBER: US 60/302,140
     26 <151> PRIOR FILING DATE: 2001-06-29
     28 <150> PRIOR APPLICATION NUMBER: US 60/316,170
     29 <151> PRIOR FILING DATE: 2001-08-30
     31 <150> PRIOR APPLICATION NUMBER: not yet assigned
     32 <151> PRIOR FILING DATE: 2002-02-19
     34 <150> PRIOR APPLICATION NUMBER: DK PA 2001 00333
     35 <151> PRIOR FILING DATE: 2001-03-01
     37 <150> PRIOR APPLICATION NUMBER: US 09/648,569
     38 <151> PRIOR FILING DATE: 2000-08-25
     40 <160> NUMBER OF SEQ ID NOS: 57
     42 <170> SOFTWARE: FastSEQ for Windows Version 4.0
     44 <210> SEQ ID NO: 1
     45 <211> LENGTH: 840
     46 <212> TYPE: DNA
     47 <213> ORGANISM: Homo sapiens
     49 <220> FEATURE:
     50 <221> NAME/KEY: CDS
     51 <222> LOCATION: (76)...(636)

     56                  Met Thr Asn Lys Cys Leu Leu Gln Ile Ala Leu Leu
     57                   1               5                  10
     59 ttg tgc ttc tcc act aca gct ctt tcc atg agc tac aac ttg ctt gga   159
     60 Leu Cys Phe Ser Thr Thr Ala Leu Ser Met Ser Tyr Asn Leu Leu Gly
```

RAW SEQUENCE LISTING DATE: 03/28/2002
PATENT APPLICATION: US/10/084,706 TIME: 12:18:54

Input Set : A:\PTO.txt
Output Set: N:\CRF3\03282002\J084706.raw

```
61          15                  20                  25
63 ttc cta caa aga agc agc aat ttt cag tgt cag aag ctc ctg tgg caa   207
64 Phe Leu Gln Arg Ser Ser Asn Phe Gln Cys Gln Lys Leu Leu Trp Gln
65      30                  35                  40
67 ttg aat ggg agg ctt gaa tac tgc ctc aag gac agg atg aac ttt gac   255
68 Leu Asn Gly Arg Leu Glu Tyr Cys Leu Lys Asp Arg Met Asn Phe Asp
69  45                  50                  55                  60
71 atc cct gag gag att aag cag ctg cag cag ttc cag aag gag gac gcc   303
72 Ile Pro Glu Glu Ile Lys Gln Leu Gln Gln Phe Gln Lys Glu Asp Ala
73                  65                  70                  75
75 gca ttg acc atc tat gag atg ctc cag aac atc ttt gct att ttc aga   351
76 Ala Leu Thr Ile Tyr Glu Met Leu Gln Asn Ile Phe Ala Ile Phe Arg
77              80                  85                  90
79 caa gat tca tct agc act ggc tgg aat gag act att gtt gag aac ctc   399
80 Gln Asp Ser Ser Ser Thr Gly Trp Asn Glu Thr Ile Val Glu Asn Leu
81          95                  100                 105
83 ctg gct aat gtc tat cat cag ata aac cat ctg aag aca gtc ctg gaa   447
84 Leu Ala Asn Val Tyr His Gln Ile Asn His Leu Lys Thr Val Leu Glu
85     110                 115                 120
87 gaa aaa ctg gag aaa gaa gat ttc acc agg gga aaa ctc atg agc agt   495
88 Glu Lys Leu Glu Lys Glu Asp Phe Thr Arg Gly Lys Leu Met Ser Ser
89 125                 130                 135                 140
91 ctg cac ctg aaa aga tat tat ggg agg att ctg cat tac ctg aag gcc   543
92 Leu His Leu Lys Arg Tyr Tyr Gly Arg Ile Leu His Tyr Leu Lys Ala
93                  145                 150                 155
95 aag gag tac agt cac tgt gcc tgg acc ata gtc aga gtg gaa atc cta   591
96 Lys Glu Tyr Ser His Cys Ala Trp Thr Ile Val Arg Val Glu Ile Leu
97              160                 165                 170
99 agg aac ttt tac ttc att aac aga ctt aca ggt tac ctc cga aac       636
100 Arg Asn Phe Tyr Phe Ile Asn Arg Leu Thr Gly Tyr Leu Arg Asn
101         175                 180                 185
103 tgaagatctc ctagcctgtg cctctgggac tggacaattg cttcaagcat tcttcaacca 696
104 gcagatgctg tttaagtgac tgatggctaa tgtactgcat atgaaaggac actagaagat 756
105 tttgaaattt ttattaaatt atgagttatt tttatttatt taaattttat tttggaaaat 816
106 aaattatttt tggtgcaaaa gtca                                      840
109 <210> SEQ ID NO: 2
110 <211> LENGTH: 166
111 <212> TYPE: PRT
112 <213> ORGANISM: Homo sapiens
114 <220> FEATURE:
115 <221> NAME/KEY: CHAIN
116 <222> LOCATION: (1)...(166)
117 <223> OTHER INFORMATION: hIFNB mature sequence
119 <400> SEQUENCE: 2
120 Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln

124 Lys Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Lys Gln Leu Gln
```

RAW SEQUENCE LISTING DATE: 03/28/2002
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Input Set : A:\PTO.txt
Output Set: N:\CRF3\03282002\J084706.raw

```
125          35                  40                  45
126 Gln Phe Gln Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln
127      50                  55                  60
128 Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn
129 65                  70                  75                  80
130 Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn
131                 85                  90                  95
132 His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Asp Phe Thr
133             100                 105                 110
134 Arg Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg
135         115                 120                 125
136 Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr
137     130                 135                 140
138 Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu
139 145                 150                 155                 160
140 Thr Gly Tyr Leu Arg Asn
141                 165
144 <210> SEQ ID NO: 3
145 <211> LENGTH: 70
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: primer
152 <400> SEQUENCE: 3
153 ggctagcgtt taaacttaag cttcgccacc atgaccaaca agtgcctgct ccagatcgcc 60
154 ctgctcctgt                                                        70
156 <210> SEQ ID NO: 4
157 <211> LENGTH: 70
158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
162 <223> OTHER INFORMATION: primer
164 <400> SEQUENCE: 4
165 acaacctgct cggcttcctg cagaggagtt cgaacttcca gtgccagaag ctcctgtggc 60
166 agctgaacgg                                                        70
168 <210> SEQ ID NO: 5
169 <211> LENGTH: 70
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial Sequence
173 <220> FEATURE:
174 <223> OTHER INFORMATION: primer
176 <400> SEQUENCE: 5
177 gaacttcgac atccccgagg aaatcaagca gctgcagcag ttccagaagg aggacgccgc 60
178 tctgaccatc                                                        70
180 <210> SEQ ID NO: 6
185 <220> FEATURE:
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RAW SEQUENCE LISTING DATE: 03/28/2002
PATENT APPLICATION: US/10/084,706 TIME: 12:18:54

Input Set : A:\PTO.txt
Output Set: N:\CRF3\03282002\J084706.raw

186 <223> OTHER INFORMATION: primer
188 <400> SEQUENCE: 6
189 ttccgccagg actccagctc caccggttgg aacgagacca tcgtggagaa cctgctggcc 60
190 aacgtgtacc 70
192 <210> SEQ ID NO: 7
193 <211> LENGTH: 70
194 <212> TYPE: DNA
195 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
198 <223> OTHER INFORMATION: primer
200 <400> SEQUENCE: 7
201 aggagaagct ggagaaggag gacttcaccc gcggcaagct gatgagctcc ctgcacctga 60
202 agcgctacta 70
204 <210> SEQ ID NO: 8
205 <211> LENGTH: 70
206 <212> TYPE: DNA
207 <213> ORGANISM: Artificial Sequence
209 <220> FEATURE:
210 <223> OTHER INFORMATION: primer
212 <400> SEQUENCE: 8
213 ggagtacagc cactgcgcct ggaccatcgt acgcgtggag atcctgcgca acttctactt 60
214 catcaaccgc 70
216 <210> SEQ ID NO: 9
217 <211> LENGTH: 70
218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: primer
224 <400> SEQUENCE: 9
225 caccacactg gactagtgga tccttatcag ttgcgcaggt agccggtcag gcggttgatg 60
226 aagtagaagt 70
228 <210> SEQ ID NO: 10
229 <211> LENGTH: 70
230 <212> TYPE: DNA
231 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:
234 <223> OTHER INFORMATION: primer
236 <400> SEQUENCE: 10
237 aggcgcagtg gctgtactcc ttggccttca ggtagtgcag gatgcggcca tagtagcgct 60
238 tcaggtgcag 70
240 <210> SEQ ID NO: 11
241 <211> LENGTH: 70
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:

[illegible]
256 ggccagcagg

RAW SEQUENCE LISTING DATE: 03/28/2002
PATENT APPLICATION: US/10/084,706 TIME: 12:18:54

Input Set : A:\PTO.txt
Output Set: N:\CRF3\03282002\J084706.raw

252 <210> SEQ ID NO: 12
253 <211> LENGTH: 70
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial Sequence
257 <220> FEATURE:
258 <223> OTHER INFORMATION: primer
260 <400> SEQUENCE: 12
261 gagctggagt cctggcggaa gatggcgaag atgttctgca gcatctcgta gatggtcaga 60
262 gcggcgtcct 70
264 <210> SEQ ID NO: 13
265 <211> LENGTH: 70
266 <212> TYPE: DNA
267 <213> ORGANISM: Artificial Sequence
269 <220> FEATURE:
270 <223> OTHER INFORMATION: primer
272 <400> SEQUENCE: 13
273 cctcggggat gtcgaagttc atcctgtcct tcaggcagta ctccaggcgc ccgttcagct 60
274 gccacaggag 70
276 <210> SEQ ID NO: 14
277 <211> LENGTH: 70
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:
282 <223> OTHER INFORMATION: primer
284 <400> SEQUENCE: 14
285 caggaagccg agcaggttgt agctcatcga tagggccgtg gtgctgaagc acaggagcag 60
286 ggcgatctgg 70
288 <210> SEQ ID NO: 15
289 <211> LENGTH: 70
290 <212> TYPE: DNA
291 <213> ORGANISM: Artificial Sequence
293 <220> FEATURE:
294 <223> OTHER INFORMATION: primer
296 <400> SEQUENCE: 15
297 ctgctccaga tcgccctgct cctgtgcttc agcaccacgg ccctatcgat gaagcaccag 60
298 caccagcatc 70
300 <210> SEQ ID NO: 16
301 <211> LENGTH: 70
302 <212> TYPE: DNA
303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: primer
308 <400> SEQUENCE: 16
309 cactgcttac tggcttatcg aaattaatac gactcactat agggagaccc aagctggcta 60
310 gcgtttaaac 70
312 <210> SEQ ID NO: 17
313 <211> LENGTH: 70
314 <212> TYPE: DNA
315 <213> ORGANISM: Artificial Sequence

VERIFICATION SUMMARY DATE: 03/28/2002
PATENT APPLICATION: US/10/084,706 TIME: 12:18:55

Input Set : A:\PTO.txt
Output Set: N:\CRF3\03282002\J084706.raw

L:19 M:270 C: Current Application Number differs, Replaced Current Application No
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date

OIPE

RAW SEQUENCE LISTING DATE: 03/28/2002
PATENT APPLICATION: **US/10/084,706** TIME: 12:17:23

Input Set : **A:\PTO.txt**
Output Set: **N:\CRF3\03282002\J084706.raw**

```
      4 <110> APPLICANT: RASMUSSEN, Poul Baad
      5       DRUSTRUP, Jorn
      6       RASMUSSEN, Grethe
      7       PEDERSEN, Anders Hjelholt
      8       SCHAMBYE, Hans Thalsg+rd
      9       ANDERSEN, Kim Vilbour
     10       BORNS, Claus
     11       Maxygen ApS
     12       Maxygen Holdings Ltd.
     14 <120> TITLE OF INVENTION: NEW INTERFERON BETA-LIKE MOLECULES
     17 <130> FILE REFERENCE: 0228us410
C--> 19 <140> CURRENT APPLICATION NUMBER: US/10/084,706
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     28 <150> PRIOR APPLICATION NUMBER: US 60/316,170
     29 <151> PRIOR FILING DATE: 2001-08-30
     31 <150> PRIOR APPLICATION NUMBER: not yet assigned
     32 <151> PRIOR FILING DATE: 2002-02-19
     34 <150> PRIOR APPLICATION NUMBER: DK PA 2001 00333
     35 <151> PRIOR FILING DATE: 2001-03-01
     37 <150> PRIOR APPLICATION NUMBER: US 09/648,569
     38 <151> PRIOR FILING DATE: 2000-08-25
     40 <160> NUMBER OF SEQ ID NOS: 57
     42 <170> SOFTWARE: FastSEQ for Windows Version 4.0
```

ERRORED SEQUENCES

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    797 <210> SEQ ID NO: 57
    798 <211> LENGTH: 166
    799 <212> TYPE: PRT
    805 <400> SEQUENCE: 57
    806 Met Ser Tyr Asn Leu Leu Gly Phe Leu Gln Arg Ser Ser Asn Phe Gln
    807  1               5                  10                  15
    808 Ser Gln Arg Leu Leu Trp Gln Leu Asn Gly Arg Leu Glu Tyr Cys Leu
```

RAW SEQUENCE LISTING DATE: 03/28/2002
PATENT APPLICATION: US/10/084,706 TIME: 12:17:23

Input Set : A:\PTO.txt
Output Set: N:\CRF3\03282002\J084706.raw

```
809                 20                  25                  30
810 Arg Asp Arg Met Asn Phe Asp Ile Pro Glu Glu Ile Arg Gln Leu Gln
811         35                  40                  45
812 Asn Phe Thr Lys Glu Asp Ala Ala Leu Thr Ile Tyr Glu Met Leu Gln
813     50                  55                  60
814 Asn Ile Phe Ala Ile Phe Arg Gln Asp Ser Ser Ser Thr Gly Trp Asn
815 65                  70                  75                  80
816 Glu Thr Ile Val Glu Asn Leu Leu Ala Asn Val Tyr His Gln Ile Asn
817                 85                  90                  95
818 His Leu Lys Thr Val Leu Glu Glu Lys Leu Glu Lys Glu Phe Asn Thr
819             100                 105                 110
820 Thr Gly Lys Leu Met Ser Ser Leu His Leu Lys Arg Tyr Tyr Gly Arg
821         115                 120                 125
822 Ile Leu His Tyr Leu Lys Ala Lys Glu Tyr Ser His Cys Ala Trp Thr
823     130                 135                 140
824 Ile Val Arg Val Glu Ile Leu Arg Asn Phe Tyr Phe Ile Asn Arg Leu
825 145                 150                 155                 160
826 Thr Gly Tyr Leu Arg Asn
827                 165
E--> 828 10
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VERIFICATION SUMMARY DATE: 03/28/2002
PATENT APPLICATION: **US/10/084,706** TIME: 12:17:24

Input Set : **A:\PTO.txt**
Output Set: **N:\CRF3\03282002\J084706.raw**

L:19 M:270 C: Current Application Number differs, Replaced Current Application No
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:828 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:57